129S-Parp1<sup>tm1Zqw</sup>/J

Stock No: 002779 | ADPRT

Targeted Mutation

Available

PLACE ORDER

Live mice available in varying quantities. Ask Customer Service for details.

Also Known As: ADPRT<sup>+</sup>

Poly(ADP-ribose) polymerase-1 knock-out mice may be useful in studying DNA repair, programmed cell death, aging, differentiation, proliferation and tumor transformation.

Donating Investigator

Zhao-Qi Wang, International Agency for Research/Cancer

READ MORE +

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td></td>
<td>F7×F15N3F6</td>
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<td>(2019-07-17 00:00:00)</td>
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**Parp1<sup>tm1Zqw</sup>**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Parp1</td>
<td>poly (ADP-ribose) polymerase family, member 1</td>
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VIEW GENETICS

Neurobiology Research
Apoptosis Research
Immunology, Inflammation and Autoimmunity Research
Cancer Research

VIEW ALL RESEARCH APPLICATIONS
Details

Detailed Description
Mice that are homozygous for the poly(ADP-ribose) polymerase-1 null mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. Although a shortened transcript is generated, no enzymatic activity is detected in tissues. Proliferation of homozygous fibroblasts and thymocytes is impaired following gamma-radiation in comparison to cells derived from wildtype mice. Older mice are susceptible to spontaneous development of skin disease. A significant portion of older mice (~30%) can be expected to exhibit epidermal hyperplasia. Null mice are also less susceptible to damage induced by the neurotoxin MPTP.

Development

Control Suggestions

Selected References

Genetics

Parp1<sup>tm1Zqw</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT
Genotyping Protocols
MELT: Parp1<sup>tm1Zqw</sup>
Standard PCR: Parp1<sup>tm1Zqw</sup>

Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
When maintaining a live colony, homozygous mice may be bred together.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using the ARPE-19 mouse strain in a publication, please cite the originating article(s) and include JAX stock #002779 in your

Animal Health Reports
Materials and Methods section
Facility Barrier Level Descriptions

AX11 (Maximum)

Pricing & Availability

Live mice available in varying quantities. Ask Customer Service for details.

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Parp1&lt;sup&gt;tm1Zqw&lt;/sup&gt;</td>
<td>$236.78</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Parp1&lt;sup&gt;tm1Zqw&lt;/sup&gt;</td>
<td>$236.78</td>
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</tbody>
</table>

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